

In the Claims

Please cancel claims 1-10, without prejudice or disclaimer.

11. (Presently amended) A dual head injector comprising:

a first head configured to receive a first syringe;

a second head configured to receive a second syringe; and,

Y-tubing coupling the first and second syringe;

a control circuit programmatically controlling the dual head injector to fill said first and second syringes and inject fluid into a patient from said first and second syringes, the control circuit [[configured]] programmed to control said injector through a purge routine to automatically purge substantially all of the air from the first and second syringes and the Y tubing and configured with a separate function to programmatically control said injector to inject fluid into a patient.

12. (Presently Amended) The dual head injector of claim 11, the Y-tubing including a first section coupled to the first head, wherein in the execution of the purge routine said first head first purges air from the first syringe and the first section of tubing.

13. (Presently Amended) The dual head injector of claim 12, the Y-tubing including a second section coupled to the second head, a connector coupled to the first and second sections, and third section coupled to the connector, wherein in the execution of the purge

routine said second head next purges air from the second syringe, the second section of tubing, the connector and the third section of tubing.

14. (Original) The dual head injector of claim 11, wherein the first syringe is a pre-filled syringe of contrast media.

15. (Presently Amended) The dual head injector of claim 11, wherein the second syringe [[contains a]] is a pre-filled syringe of saline solution.

16. (Original) The dual head injector of claim 11, wherein one of the first and second syringes contains a contrast media.

17. (Original) The dual head injector of claim 11, wherein one of the first and second syringes contains a saline solution.

Please cancel claims 18-39, without prejudice or disclaimer.

40. (New) The dual head injector of claim 11, wherein said first head is enclosed within a first housing and said second head is enclosed within a second housing.

41. (New) The dual head injector of claim 11, wherein said purge routine comprises one or more steps requiring user interaction.

42. (New) The dual head injector of claim 41, wherein said purge routine comprises a first step of purging air from said first syringe and obtaining confirmation thereof from a user.

43. (New) The dual head injector of claim 42, wherein said purge routine comprises a second step of purging air from said second syringe and obtaining confirmation thereof from a user.

44. (New) The dual head injector of claim 11, wherein said purge routine comprises a step of enabling the injector, the control circuit configured to programmatically control said injector to inject fluid into a patient only when enabled.

45. (New) A dual head injector assembly comprising:

- a first syringe containing a first medical fluid and having a plunger disposed therein;
- a second syringe containing a second medical fluid and having a plunger disposed therein;
- a first drive ram configured to interface with the plunger of the first syringe;

a second drive ram configured to interface with the plunger of the second syringe;
Y-tubing coupled to each of the first syringe and the second syringe;
a processor programmed to initiate an automatic purge protocol wherein the first drive ram advances the first plunger of the first syringe a first predetermined distance, and the second drive ram advances the second plunger of the second syringe a second predetermined distance,

wherein completion of the automatic purge protocol results in a purge of substantially all of the air from the first and second syringes and the Y tubing and in allowing a substantial majority of the first and second medical fluids to remain in the respective first and second syringes for a subsequent injection protocol.

46. (New) The assembly of claim 45, wherein the first drive ram is located within a first housing, and the second drive ram is located within a second housing.

47. (New) The assembly of claim 45, wherein the advance of the first plunger the first predetermined distance purges air from the first syringe and a first section of the Y tubing connected thereto.

48. (New) The assembly of claim 47, wherein the Y-tubing includes a second section coupled to the second syringe, a connector coupled to the first and second sections, and third section coupled to the connector, wherein the advance of the second plunger the second

predetermined distance purges air from the second syringe, the second section of tubing, the connector and the third section of tubing.

49. (New) The assembly of claim 45, wherein the first syringe is a pre-filled syringe of contrast media.

50. (New) The assembly of claim 45, wherein the second syringe is a pre-filled syringe of saline solution.

51. (New) The assembly of claim 45, wherein one of the first and second syringes contains a contrast media.

52. (New) The assembly of claim 45, wherein one of the first and second syringes contains a saline solution.

53. (New) The assembly of claim 45, wherein said purge protocol comprises one or more steps requiring user interaction.

54. (New) The assembly of claim 53, wherein said purge protocol comprises a first step of purging air from said first syringe and obtaining confirmation thereof from a user.

55. (New) The assembly of claim 54, wherein said purge protocol comprises a second step of purging air from said second syringe and obtaining confirmation thereof from a user.

56. (New) The assembly of claim 45, wherein said purge protocol comprises a step of enabling the injector, the control circuit configured to perform an injection protocol only when enabled.